

Transparencies

5. Verisimilitude
- 1a. Atomic Structure
2. Probability Distribution of the Electron in Hydrogen Atom
3. Notes from A to B.
 - Particile Description
 - Field Description
4. Annihilator, Creator and the Vacuum

1. UCL study of physics - genetic code, QM & Relativity disapproved - Black box approach to QM - further physics of people in a hurry / physics for pedestrians
2. Revision among philosophers, start again from scratch, learn language of philosophy + physics
3. Phil. of Physics recognized discipline
second-order activity reflecting on nature of physics - ex. neurologist concerned with underlying principles, concepts and ultimate foundations of that physics
4. Modern physics raises several phil. problems
 - (1) appearance of theory - Ad hoc etc
 - (2) heuristics, metacanstants of theory
models, theories etc
 - (3) ethical > aesthetic questions
 - (4) Social organization
 - (5) Metaphysical questions - ultimate nature of reality
5. Second phil. of science
Science cannot withstand nature of the external world
not inner world of thoughts, dream, hopes
- objective reality v. subjective impressions of reality
6. preapproaches -
 - (1) physical entities
 - (2) form through sense experience
 - (3) exist independently of perception
 - (4) cause sense impressions

fact, Rosa's defense

In fact (1) rationalism
(2) empiricism.

8. But empiricism → scepticism.

↳ pull in direction of ^{skepticism} rationalism, platonism,
empiricism

9. Important rationalism - is it credible?

10. Conjectural realism

11. Shows don't give us certain
conjectures controlled by empirical

12. This is view of Popper

13. demarcation criterion

14. Eccles anecdote

15' empirical basis - methodological decisions

16. Bucket v. searchlight - stories lead to problems
→ new theories

17. Verisimilitude

18. Miller example $P \rightarrow D \rightarrow P \wedge D$

19. Fisher letter for fine swans that fit applied science
was trap will run from London to Cambridge known
breed penguins

- role of science & role of
quest for the truth

21. Nature of reality, diff. of metatheories
22. DM example
23. New sense of interpretation
24. ~~ed~~ Existence of tables
25. 1 ~~in~~ Humean
theory
26. Kinetic theory - pragmatic atomism
→ metophysical atomism
27. Atomic structure
28. heuristic guide of metophysical atomism
29. Nature of electron
30. Q.M. - wave-particle duality
31. electron spread as a wave
32. role of probability of an electron as a particle
33. creation / annihilation $\rightarrow QFT$
34. Matter from A-B - particle destruction

36. creation → archetypes
— Protophylaxis
37. Weber determinism
But evolution is form of causality
38. Puzzles about DM
TBC spread self-referent
Sectiodayers eat
realist metaphysics must-independent
reality, but holistic involvement in
conscious' parts of a composite system
39. Introduction of Hume's philosophy.
Revolution: Metaphysics drives Physics
Normal state: Physics purifies metaphysics
— decontaminated metaphysics
40. Aspect experiment
— non immediate sense of experienced
metaphysics
41. Parameter introduction
Q.D. will be found different
42. Credibility numbers, Bush example